SEQUENCE LISTING

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       LOWE, DAVID G.

<120> DIFFERENTIALLY EXPRESSED GENES IN CARDIAC HYPERTROPHY AND THEIR
      USES IN TREATMENT AND DIAGNOSIS

<130> 09800081-0006

<140> US 09/554,169
<141> 2000-08-21

<150> PCT/US98/23953
<151> 1998-11-10

<150> US 09/189,618
<151> 1998-11-09

<150> US 60/065,048
<151> 1997-11-10

<160> 32

<170> PatentIn version 3.2

<210> 1
<211> 114
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<222> (10)..(108)
<223> "n" represents a, t, c, g, other or unknown

<400> 1
ggtacctggn tggccaagaa gttgcgnant ttgtntggna gagtggtaag cagtggggtg   60

gcaaacagac ctggagcaat tgttaccaca cggatgccta taggagcnag atct   114

<210> 2
<211> 198
<212> DNA
<213> Rattus sp.

<400> 2
rgatccaggg aatcctgcag ttccaggagg accaggggga cctggttgcc cgtcactgcc   60

ccgagcacca tcattgcctc gagcacctgc ggctccagga agacctggtc gtcctcgctc   120

accaggagcc cctctgggac ccatggggcc aggagctccg ttgtctcccg gaagaccgtt   180

ttcacccttc aatccagg   198

<210> 3
<211> 270
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<222> (220)..(220)
<223> "n" represents a, t, c, g, other or unknown

<400> 3
tccggagtgg acagccagta ggagtagtcg ttcctggagg cgaagttgca gacgttgttg   60

atgttgcaga agaggaaggg catggtgctg aacttgcgca gacagctgcc agccgtaccc   120

aagtcctgac catgggcccg ctcgtttcct tggacataga gcagagagta cccatggtaa   180

agaattttgg tccctggggg acacagcggg tcatctcacn gtctgactat gcctggtcac   240

aaggaagcca tggtccacag atggggtacc   270

<210> 4
<211> 121
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<222> (10)..(103)
<223> "n" represents a, t, c, g, other or unknown

<400> 4
ggtaccttcn atttgttccc atgctatcnn atccntaagg atgccctggt ttcccagcca   60

ncnnagtgtc tgcacccngn aggattgcct gctgnctntn cnntgacttt tctgttccgg   120

a   121

<210> 5
<211> 66
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<222> (23)..(27)
<223> "n" represents a, t, c, g, other or unknown

<400> 5
yggccacggc ggcctgcggg gcntnancgg gttttcctca gggcaaatga tataaggctc   60

ggtacc   66

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<210>   6
<211>   143
<212>   DNA
<213>   Rattus sp.


<220>
<221>   misc_feature
<222>   (35)..(96)
<223>   "n" represents a, t, c, g, other or unknown

<400>   6
gtgcacacac actatagttt tcctgcttgt ccttnngttc tctctgggag atggacaacc      60

ctcaaaggca ctgattgntg acattnntag ctctgntcct tactcaggca gccagctcag     120

ccaaggcccg gtccaaggga tcc                                             143


<210>   7
<211>   127
<212>   DNA
<213>   Rattus sp.

<400>   7
rgatcccaag tcacagcatt ttcccacgta actcgactct gaggccatag cctatccaca      60

gcctcctcgt cccctgcacc gcccagtgtc tcactggctg tgttggagac gggaattgca     120

taagctt                                                               127


<210>   8
<211>   147
<212>   DNA
<213>   Rattus sp.


<220>
<221>   misc_feature
<222>   (67)..(120)
<223>   "n" represents a, t, c, g, other or unknown

<400>   8
aagcttgcac agatcaaaag aaatggaacc gtgtggggac aaggcaaata aaaaaactca      60

cggtgcnatt ctcnncataa agcgaaacgg tttaaatgca gcagtgtgan ttcttcccan     120

ttccttctct gggatttcag gggatcc                                         147


<210>   9
<211>   266
<212>   DNA
<213>   Rattus sp.
```

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<220>
<221>  misc_feature
<222>  (13)..(176)
<223>  "n" represents a, t, c, g, other or unknown

<400>  9
gtgcacggac  tgnaggctgt  gctcgggcca  gtggtgactg  catttgccac  aggactcatt      60

tactgccacg  ctctgcctct  ganggtnntc  cangtncnnn  annanntnan  nggtnanntn     120

ntncaaatnt  tncaactncn  tnaaggtnaa  ngggnctggg  ctncaagaga  acgtanctgg     180

ttttggtttt  gagatggtgg  aggcagtggg  tgctgcttct  cttgaactag  gggcttctcc     240

ttctgctgag  cataggtgaa  gctagc                                             266


<210>  10
<211>  114
<212>  DNA
<213>  Rattus sp.


<220>
<221>  misc_feature
<222>  (7)..(105)
<223>  "n" represents a, t, c, g, other or unknown

<400>  10
agatctngct  cctataggca  tccgtgtggt  aacaattgct  ccaggtctgt  ttgccacccc      60

actgcttacc  actctnccan  acaaantncg  caacttcttg  gccanccagg  tacc            114


<210>  11
<211>  114
<212>  DNA
<213>  Mus sp.

<400>  11
agatctggct  cctacaggca  tccgtgtggt  aacaattgcg  ccaggtttgt  ttgccacccc      60

actgcttacc  acccttccag  agaaagtgcg  aaacttcttg  gccagccagg  tacc            114


<210>  12
<211>  113
<212>  DNA
<213>  Rattus sp.


<220>
<221>  misc_feature
<222>  (6)..(104)
<223>  "n" represents a, t, c, g, other or unknown

<400>  12
gatctngctc  ctataggcat  ccgtgtggta  acaattgctc  caggtctgtt  tgccacccca      60
```

ctgcttacca ctctnccana caaantncgc aacttcttgg ccanccaggt acc   113

<210>   13
<211>   113
<212>   DNA
<213>   Homo sapiens

<400>   13
gatctggctc ccataggtat ccgggtgatg accattgccc caggtctgtt tggcacccca   60

ctgctgacca gcctcccaga gaaagtgtgc aacttcttgg ccagccaagt gcc   113

<210>   14
<211>   197
<212>   DNA
<213>   Rattus sp.

<400>   14
cctggattga agggtgaaaa cggtcttccg ggagacaacg gagctcctgg ccccatgggt   60

cccagagggg ctcctggtga gcgaggacga ccaggtcttc ctggagccgc aggtgctcga   120

ggcaatgatg gtgctcgggg cagtgacggg caaccaggtc cccctggtcc tcctggaact   180

gcaggattcc ctggatc   197

<210>   15
<211>   197
<212>   DNA
<213>   Mus sp.

<400>   15
cctggactga agggtgaaaa tgttcttcca ggagacaacg gagctcctgg ccccatgggt   60

cctagagggg ctcctggtga gcgaggacga ccaggccttc ctggagctgc aggtgctcga   120

ggcaatgatg gtgctcgggg cagtgatggg caacctggtc cccctggccc tcctggaact   180

gcaggattcc ctggatc   197

<210>   16
<211>   270
<212>   DNA
<213>   Rattus sp.

<220>
<221>   misc_feature
<222>   (51)..(51)
<223>   "n" represents a, t, c, g, other or unknown

<400>   16
ggtaccccat ctgtggacca tggcttcctt gtgaccaggc atagtcagac ngtgagatga   60

```
cccgctgtgt cccccaggga ccaaaattct ttaccatggg tactctctgc tctatgtcca      120

aggaaacgag cgggcccatg gtcaggactt gggtacggct ggcagctgtc tgcgcaagtt      180

cagcaccatg cccttcctct tctgcaacat caacaacgtc tgcaacttcg cctccaggaa      240

cgactactcc tactggctgt ccactccgga                                      270
```

```
<210>  17
<211>  269
<212>  DNA
<213>  Mus sp.

<400>  17
ggtaccccat ctgtggacca tggcttcctt gtgaccaggc atagtcagac aacagatgac       60

ccactgtgtc ccccagggac caaaattctt taccatggat actctctgct ctatgtccaa      120

ggcaacgagc gtgcccacgg gcaggacttg ggtacggctg gcagctgcct gcgtaagttc      180

agcaccatgc cctttctctt ctgcaacatc aacaacgtct gcaacttcgc ctccaggaac      240

gactactctt actggctgtc cacgccaga                                       269
```

```
<210>  18
<211>  270
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Description of Artificial Sequence:  consensus sequence


<220>
<221>  misc_feature
<222>  (51)..(268)
<223>  "n" represents a, t, c, g, other or unknown

<400>  18
ggtaccccat ctgtggacca tggcttcctt gtgaccaggc atagtcagac nnnnagatga       60

cccnctgtgt cccccaggga ccaaaattct ttaccatggn tactctctgc tctatgtcca      120

aggnaacgag cgngcccang gncaggactt gggtacggct ggcagctgnc tgcgnaagtt      180

cagcaccatg cccttnctct tctgcaacat caacaacgtc tgcaacttcg cctccaggaa      240

cgactactcn tactggctgt ccacnccnga                                      270
```

```
<210>  19
<211>  121
<212>  DNA
<213>  Homo sapiens
```

<400> 19
ggtaccttca atgtgtttcc atgttaccaa ctccataaag atgccctggt ttcccagcca   60

accaggtact tgcacccaga aggattgccc tccgactaca caatcagttt tctattccgg   120

a   121

<210> 20
<211> 64
<212> DNA
<213> Rattus sp.

<220>
<221> misc_feature
<222> (22)..(26)
<223> "n" represents a, t, c, g, other or unknown

<400> 20
ggccacggcg gcctgcgggg cntnancggg ttttcctcag ggcaaatgat ataaggctcg   60

gtac   64

<210> 21
<211> 65
<212> DNA
<213> Homo sapiens

<400> 21
ggccacggcg gtctccgagg ctatctacgg gtttttttca ggacaaatga tgcgaagggt   60

ggtac   65

<210> 22
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<220>
<221> misc_feature
<222> (12)..(61)
<223> "n" represents a, t, c, g, other or unknown

<400> 22
ggccacggcg gnctncgngg cnntnnncgg gttttnntca ggncaaatga tnnnaaggnt   60

nggtac   66

<210> 23
<211> 143

```
<212>  DNA
<213>  Rattus sp.


<220>
<221>  misc_feature
<222>  (48)..(109)
<223>  "n" represents a, t, c, g, other or unknown

<400>  23
ggatcccttg gaccgggcct tggctgagct ggctgcctga gtaagganca gagctannaa      60

tgtcancaat cagtgccttt gagggttgtc catctcccag agagaacnna aggacaagca     120

ggaaaactat agtgtgtgtg cac                                             143


<210>  24
<211>  141
<212>  DNA
<213>  Mus sp.

<400>  24
ggatcctttg gaccgggcct tggctgagct ggctgcctga gtaaggacca agccatcaat      60

gtcaccaatc agtgcctttg agggttgtcc atctcccaaa gacatcatat ggcaagcagg     120

aaaactatga tgtgtgcgcg c                                               141


<210>  25
<211>  143
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Description of Artificial Sequence:  consensus sequence


<220>
<221>  misc_feature
<222>  (7)..(142)
<223>  "n" represents a, t, c, g, other or unknown

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ggatccnttg gaccgggcct tggctgagct ggctgcctga gtaagganca nagcnannaa      60

tgtcancaat cagtgccttt gagggttgtc catctcccan aganancnna nggncaagca     120

ggaaaactat nntgtgtgng cnc                                             143


<210>  26
<211>  127
<212>  DNA
<213>  Rattus sp.

<400>  26
```

```
agatcccaag tcacagcatt ttcccacgtt actcgactct gaggccatag cctatccaca      60

gcctcctcgt cccctgcacc gcccagtgtc tcactggctg tgttggaaac gggaattgca     120

taagctt                                                               127
```

```
<210>    27
<211>    147
<212>    DNA
<213>    Rattus sp.
```

```
<220>
<221>    misc_feature
<222>    (28)..(81)
<223>    "n" represents a, t, c, g, other or unknown
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```
<400>    27
ggatcccctg aaatcccaga gaaggaantg ggaagaantc acactgctgc atttaaaccg      60

tttcgcttta tgnngagaat ngcaccgtga gtttttttat ttgccttgtc cccacacggt     120

tccatttctt ttgatctgtg caagctt                                        147
```

```
<210>    28
<211>    146
<212>    DNA
<213>    Mus sp.
```

```
<400>    28
ggatcccctg aaatcccgga gaagagcctg ggaagaatca aactgatgca tttaacgcgt      60

tctgctttac acagaggatc gcaccgtgag ccgtgctatc tgtcctgtcc ccacacggtt     120

ctgtttcttt tggtctgtgc aagctt                                         146
```

```
<210>    29
<211>    147
<212>    DNA
<213>    Artificial Sequence
```

```
<220>
<223>    Description of Artificial Sequence:  consensus sequence
```

```
<220>
<221>    misc_feature
<222>    (18)..(134)
<223>    "n" represents a, t, c, g, other or unknown
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```
<400>    29
ggatcccctg aaatcccnga gaagnnnntg ggaagaantc anactgntgc atttaanncg      60

ttnngcttta nnnngagnat ngcaccgtga gnnntnntat ntgncntgtc cccacacggt     120
```

tcnntttctt ttgntctgtg caagctt   147

<210> 30
<211> 265
<212> DNA
<213> Rattus sp.

<220>
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<222> (90)..(253)
<223> "n" represents a, t, c, g, other or unknown

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tgcctccacc atctcaaaac caaaaccagn tacgttctct tgnagcccag ncccnttnac   120

cttnangnag ttgnaanatt tgnannannt naccnntnan ntnntnnngn acntgganna   180

ccntcagagg cagagcgtgg cagtaaatga gtcctgtggc aaatgcagtc accactggcc   240

cgagcacagc ctncagtccg tgcac   265

<210> 31
<211> 267
<212> DNA
<213> Mus sp.

<400> 31
ctagcttcac ctatgctcag cagaaggaga agcccctagt tcaagagaag cagcacccac   60

agcctccacc agctcaaaac caaaaccagg tacgctctcc tggaggccca ggcccccttga   120

ccctgaagga ggtagaggag ttggagcagc tgacccagca gctgatgcag gacatggaac   180

accctcagag gcagagcgtg gcagtgaatg agtcctgtgg caaatgcaat cagccactgg   240

cccgtgcaca gcctgcggtt cgtgcac   267

<210> 32
<211> 243
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus sequence

<220>
<221> misc_feature
<222> (61)..(233)
<223> "n" represents a, t,c, g, other or unknown

<400> 32

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ctagcttcac ctatgctcag cagaaggaga agcccctagt tcaagagaag cagcacccac      60

ngcctccacc anctcaaaac caaaaccagn tacgntctcn tgnagnccca gncccnttna     120

ccntnangna gntnnannan ttgnannann tnaccnnnna nntnntnnng nacntggann     180

accntcagag gcagagcgtg gcagtnaatg agtcctgtgg caaatgcant canccactgg     240

ccc                                                                  243
```